

Amendments to the Claims

A listing of the entire set of pending claims (including amendments to the claims) is submitted herewith per 37 C.F.R. § 1.121. This listing of claims will replace all prior versions and listings of claims in the application.

1. (currently amended) A method for ~~access to~~ accessing a medium by a multi-channel device, in which the medium comprises a transmission system having at least two channels, the method comprising:

transmitting on which a message including to be transmitted comprises at least a preamble, and a header (PR) ~~plus~~ and a succeeding control or data section, and characterized in that

repeating the transmission of the preamble and header (PR) of the message ~~are repeated in parallel~~ on all the channels.

2. (canceled)

3. (currently amended) ~~[[A]]~~ The method as claimed in of claim 1, ~~characterized in that~~ wherein the messages to be transmitted are of ~~[[the]]~~ a request-to-send (RTS), clear-to-send (CTS), acknowledgement (ACK) or data (DATA) type.

4. (currently amended) ~~[[A]]~~ The method as claimed in of claim 1, ~~characterized in that~~ wherein the multi-channel device operates to standard IEEE 802.11, ~~i.e. 802.11e or 802.11n having~~ and a medium access control (MAC) protocol, the method further comprises repeating and at least some of the items of information belonging to the MAC protocol ~~are repeated~~ on all the channels.

5. (currently amended) ~~[[A]]~~ The method as claimed in of claim 1, ~~characterized in that~~ wherein the medium access to the medium takes place under standard IEEE 802.11, ~~i.e. 802.11e or 802.11n,~~ the method further comprising transmitting the RTS, CTS and ACK control frames ~~are transmitted~~ on all the channels, and ~~single-channel devices~~

~~set their~~ setting network allocation vectors (NAVs), by single channel devices, based
~~on the basis of the~~ information in the RTS/CTS data packets.

6. (currently amended) A method for ~~access to~~ accessing a medium by a multi-channel device, in which the medium comprises a transmission system having at least two channels that the multi-channel device intends to call upon for transmission in which a message to be transmitted comprises a preamble, a header (PR) and a succeeding control or data section wherein the preamble and header (PR) of the message are repeated in parallel on all the channels, ~~characterized by the steps of the~~ method comprising:

- [[-]] scanning by the multi-channel device of all the channels to be called upon for transmission,
- [[-]] finding that a single one of these channels is idle or that a back-off by the device itself is underway on this channel,
- [[-]] blocking of this channel to other devices by the multi-channel device,
- [[-]] further scanning of the other channels to be called upon and blocking or reserving thereof on finding that the channel concerned is idle or that a backoff is underway thereon.

7. (currently amended) [[A]] The method as claimed in of claim 6, characterized in that
the further comprising:

blocking of the channel ~~is performed~~ by the multi-channel device and the receiving device, each of which emits a reserving message.

8. (currently amended) [[A]] The method as claimed in of claim 7, characterized in that
wherein the reserving message is implemented in the form of RTS and CTS frames,
the method further comprising: that are transmitted by the following steps

- [[-]] ~~transmission of~~ transmitting an RTS frame on the free channel by the multi-channel device, so that devices in the area surrounding the multi-channel device that is transmitting will set their NAVs, and

[[-]] ~~transmission of~~ transmitting a CTS frame on the free channel by the receiving device, so that stations in the area surrounding the receiving station will set their NAVs.

9. (currently amended) [[A]] ~~The method as claimed in of~~ claim 7, ~~characterized in that~~ further comprising transmitting with channel grouping, by the multi-channel device ~~carries out its transmission with channel grouping, on all the channels that it has itself~~ previously blocked.

10. (currently amended) [[A]] ~~The method as claimed in of~~ claim 6, ~~characterized in that the~~ further comprising
blocking of the channel ~~is performed~~ by starting the transmission by the multi-channel station on the single channel, ~~in which case wherein~~ the transmission can be made with or without an RTS-CTS mechanism.

11. (currently amended) A method for ~~access to~~ accessing a medium by a multi-channel device, ~~which the~~ medium comprises a transmission system having at least two channels that the multi-channel device intends to call upon for transmission, and a message to be transmitted comprising a preamble, a header (PR) and a succeeding control or data section, the method comprising:

repeating the preamble and header (PR) of the message in parallel on all channels, and

reserving or blocking, by ~~characterized in that~~ a third device, ~~[[()]]~~ independent of the transmitter and receiver ~~[[()]]~~ ~~reserves or blocks~~ the channels in ~~the~~ a channel group for the multi-channel device that ~~wishes~~ intends to transmit.

12. (currently amended) [[A]] ~~The method as claimed in of~~ claim 11, ~~characterized in that~~ further comprising:

coordinating, by the third device, ~~is responsible for coordinating medium~~ access to the medium for ~~to~~ a plurality of channels.

13. (currently amended) ~~[[A]] The method as claimed in of claim 11, characterized in that wherein~~ in the event of individual channels in the channel group not becoming free simultaneously, the third device causes, alternatively,

[[a)] blocking one channel or individual channels ~~to be blocked~~ until such time as all the channels in the channel group have become free, or

[[b)] assigning a channel that has become free ~~to be assigned~~ immediately to the multi-channel device that ~~wishes~~ intends to transmit.

14. (currently amended) ~~[[A]] The method as claimed in of claim 11, wherein the third device is a hybrid coordinator or point coordinator, characterized in that the method performing the medium access is performed under standard IEEE 802.11, i.e. 802.11e or 802.11n, and said third device is the hybrid coordinator or point coordinator.~~

15. (currently amended) ~~[[A]] The method as claimed in of claim 14, characterized in that further comprising:~~

transmitting, by the point coordinator or hybrid coordinator, ~~transmits what is called~~ beacons in parallel on all the channels.

16. (Currently amended) ~~Use of a The method as claimed in of claim 1, on a further comprising:~~

employing transmission system employing the Standard Universal Mobile Telecommunication System (UMTS) as the transmission system.

17. (Currently amended) A multi-channel device ~~that is intended for accessing a medium, that comprises the medium comprises~~ a transmission system having at least two channels, the multi-channel device performing ~~being intended to perform the method claimed in of claim 1 for the purpose of accessing the medium.~~

18. (Currently amended) A wireless network ~~that has~~ comprising a transmission system having at least two channels and ~~that has~~ at least one multi-channel device as claimed in claim 17.